

EUROPEAN PATENT OFFICE**Patent Abstracts of Japan**

PUBLICATION NUMBER : 2000294832
PUBLICATION DATE : 20-10-00

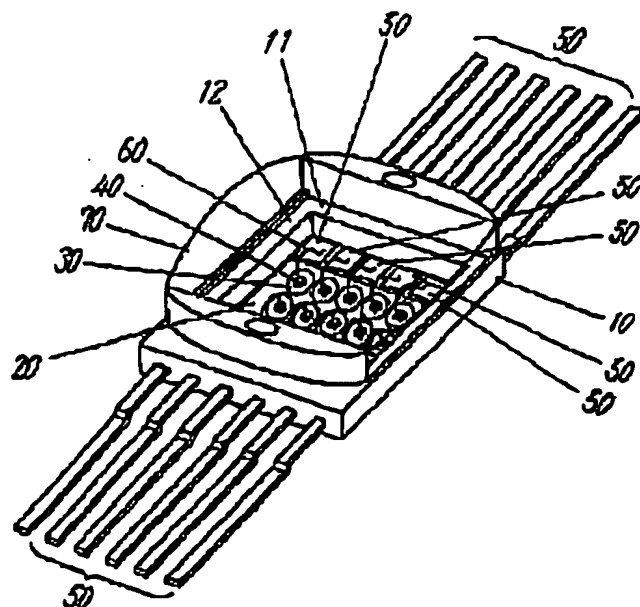
APPLICATION DATE : 05-04-99
APPLICATION NUMBER : 11097323

APPLICANT : MATSUSHITA ELECTRONICS
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INT.CL. : H01L 33/00

TITLE : LIGHT EMITTING DIODE DEVICE AND
ITS MANUFACTURE



ABSTRACT : PROBLEM TO BE SOLVED: To obtain a light emitting diode device which has wide directivity and a high-output characteristic and can be reduced in size and thickness and a method for manufacturing the device.

SOLUTION: A light emitting diode device is provided with a flat metallic plate 20 and a plurality of lead terminals 50 arranged on the upper surface of a resin substrate 10, a plurality of light reflecting recesses 30 formed on the plate 20, and a plurality of light emitting diode elements 40 which are respectively mounted on the bottom faces of the recesses 30. The diode device is also provided with a plurality of wires 60 which respectively connect the diode elements 40 to the inner sections of the lead terminals 50, a frame 11 provided on the upper surface of the substrate 10 so as to surround the plate 20 and the inner sections of the terminals 50, and an optical lens 70 provided on the step 12 of the frame 11.

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